OAK BAY HIGH - *Green Building* Fact Sheet

What Makes Oak Bay High Sustainable?

- It was built with high performance windows and a building envelope to improve insulation and increase energy efficiency;
- An air to hot water heat pump for heating and cooling provides more than 70% of the building's natural heating. It heats the school twice as efficiently in comparison to a natural gas boiler;
- The Architectural Design maximizes natural lighting;
- Installation of Direct Digital Control (DDC) and lighting control systems help manage energy consumption;
- Addition of low flow toilets, urinals and sink fixtures to reduce water consumption;
- A new stormwater retention and filtering system reduces flooding and erosion at Bowker Creek. The system captures and treats 90% of the stormwater runoff from the site and removes contaminants before entering into Bowker Creek;
- Durable components such as concrete, medium density fibreboard, metal siding and masonry were utilized in the build to minimize future maintenance requirements;
- The use of low emitting materials such as low VOC paints, natural flooring materials and low VOC composite wood materials ensure improved indoor air quality;
- The addition of eight parking spots with electric chargers helps reduce pollution;
- The addition of covered bicycle parking spaces and access to shower facilities for cyclists promotes well-being and sustainable transportation;
- From start to finish the project promoted recycling:
  - » Approximately 26% of construction materials on the project contained recycled content. E.g., concrete and steel;
  - » 92.2% of construction and demolition waste was diverted from the landfill;
- Under a Neighbourhood Learning Centre Agreement, approximately 1,200 square metres of the building is utilized by Oak Bay Parks and Recreation to provide community services and improve community connectivity.

BUILDING PROFILE:

Oak Bay High is home to approximately 1,300 students from grades 9-12. It is the first high school in the Greater Victoria School District to be recognized for its Leadership in Energy and Environmental Design (LEED©). The Canada Green Building Council has given the school a mark of excellence when it comes to sustainable construction.

CERTIFICATION: *LEED© Gold*

BUILDING SIZE:

Interior area of the school is 17,700 square metres

ARCHITECTS:

HCMA Architecture + Design of Victoria

CONTRACTOR:

Farmer Construction Ltd.

LEED© CONSULTANT:

Advicas Group Consultants Inc.

LEED© SCORECARD:

Category	Points Earned
Sustainable Sites	*17*
Water Efficiency	*2*
Energy Atmosphere	*23*
Materials & Resources	*5*
Indoor Environmental Quality	*9*
Innovation in Design	*6*
Regional Priority	*4*
TOTAL	***66***

**LEED® for New Construction Certification Thresholds:*
Certified: *40-49 points,* ***Silver:*** *50-59 points;*
Gold: *60-79 points;* ***Platinum:*** *80 points or more*
www.cagbc.org